Patch Release Note

Patch 86222-06
For Rapier Switches and AR800 Series Modular Switching Routers

Introduction

This patch release note lists the issues addressed and enhancements made in patch 86222-06 for Software Release 2.2.2 on existing models of Rapier L3 managed switches and AR800 Series L3 modular switching routers. Patch file details are listed in Table 1.

Table 1: Patch file details for Patch 86222-06.

Base Software Release File	86s-222.rez
Patch Release Date	30-Aug-2001
Compressed Patch File Name	86222-06.paz
Compressed Patch File Size	226776 bytes

This release note should be read in conjunction with the following documents:

■ Release Note: Software Release 2.2.2 for Rapier Switches, AR300 and AR700 Series Routers, and AR800 Series Modular Switching Routers (Document Number C613-10313-00 Rev A) available from *www.alliedtelesyn.co.nz/documentation/documentation.html*.

■ Rapier Switch Documentation Set for Software Release 2.2.1 available on the Documentation and Tools CD-ROM packaged with your switch, or from *www.alliedtelesyn.co.nz/documentation/documentation.html*.

■ AR800 Series Modular Switching Router Documentation Set for Software Release 2.2.1 available on the Documentation and Tools CD-ROM packaged with your switching router, or from *www.alliedtelesyn.co.nz/documentation/documentation.html*.

WARNING: Using a patch for a different model or software release may cause unpredictable results, including disruption to the network. Information in this release note is subject to change without notice and does not represent a commitment on the part of Allied Telesyn International. While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesyn International can not accept any type of liability for errors in, or omissions arising from the use of this information.

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Features in 86222-06

Patch 86222-06 includes all issues resolved and enhancements released in previous patches for Software Release 2.2.2, and the following enhancements:

PCR: 01188   Module: SWI   Network affecting: No

The power supply voltages of the base board PHYs on a Rapier G6 are controlled by a PHY register value, which was incorrectly set. This issue has been resolved.

PCR: 01190   Module: PIM   Network affecting: No

In PIM Dense Mode, if a data stream started before PIM hello messages were exchanged, the receiver did not get the data stream. This issue has been resolved.

PCR: 01192   Module: SWI   Network affecting: No

The Rapier G6 base ports sometimes experienced spurious link up or link down events. This issue has been resolved.

Features in 86222-05

Patch file details for Patch 86222-05 are listed in Table 2.

Table 2: Patch file details for Patch 86222-05.

Base Software Release File	86s-222.rez
Patch Release Date	24-Aug-2001
Compressed Patch File Name	86222-05.paz
Compressed Patch File Size	223728 bytes

Patch 86222-05 includes all issues resolved and enhancements released in previous patches for Software Release 2.2.2, and the following enhancements:

PCR: 01148   Module: SWI   Network affecting: No

A39 copper uplink modules in the Rapier G6 sometimes experienced spurious link up or link down events. This issue has been resolved.

PCR: 01157   Module: CORE   Network affecting: No

The enterprise MIB now supports objects for power supply monitoring.

PCR: 01162   Module: PKI   Network affecting: No

Certificates containing *GeneralisedTime* with the year in YYYY format are now parsed correctly. The *keyUsage* field of certificates is now parsed correctly when only one byte has been specified. The *CRL update time* is now displayed correctly in hours. If the *username* and *password* parameters are present the *location* parameter must be present and appear before the *username* and *password* parameters. Certificates with signatures of 257 bytes are now correctly parsed. Certificates added from a configuration script are now processed correctly.

PCR: 01170   **Module: IPv6**   **Network affecting: No**

A fatal error occurred if an IPv6 interface was deleted while packets were being transmitted. The number of current interfaces was not being updated correctly when a new IPv6 interface was added. As a result, after multiple additions and deletions, no more IPv6 interfaces could be added. These issues have been resolved.

PCR: 01176   **Module: PKI**   **Network affecting: No**

The CREATE CONFIG command now adds PKI certificates to the script in the same order that they were originally added to the certificate database.

PCR: 01177   **Module: PKI**   **Network affecting: No**

PKI certificates are now periodically checked (once per hour) to verify that they are still valid.

PCR: 01178   **Module: IPSEC**   **Network affecting: No**

IPCOMP SA's which have the reserved CPI "3" are no longer deleted by ISAKMP delete messages.

PCR: 01179   **Module: SWI**   **Network affecting: No**

When a VLAN was created and then destroyed on the G6 or G6F, the VTABLE was corrupted. This has been fixed.

PCR: 01181   **Module: DHCP**   **Network affecting: No**

DHCP failed to send request messages when it was in a rebinding or renewing state. This issue has been resolved.

PCR: 01185   **Module: SWI**   **Network affecting: No**

In some extreme traffic conditions the switch could lock up, preventing switching of any traffic. This issue has been resolved.

PCR: 01186   **Module: FIREWALL**   **Network affecting: No**

When large numbers of sessions were being handled the firewall would become overly aggressive in restricting new sessions. The *Active TCP Opens* field in the output of the SHOW FIREWALL POLICY would show a very high number (42×10^8). This issue has been resolved.

PCR: 01187   **Module: IPG**   **Network affecting: No**

If the IGMP table was empty and a timeout was set, a fatal error occurred. This issue has been resolved.

Features in 86222-04

Patch file details for Patch 86222-04 are listed in Table 3.

Table 3: Patch file details for Patch 86222-04.

Base Software Release File	86s-222.rez
Patch Release Date	24-Aug-2001
Compressed Patch File Name	86222-04.paz
Compressed Patch File Size	220220 bytes

Patch 86222-04 includes all issues resolved and enhancements released in previous patches for Software Release 2.2.2, and the following enhancements:

PCR: 01124   Module: PKI   Network affecting: No

Message protection validation failures would occur intermittently. This issue has been resolved.

PCR: 01136   Module: ISAKMP   Network affecting: No

ISAKMP now interoperates with other vendor's products in aggressive mode exchanges.

PCR 01138   Module: CORE, SWI   Network affecting: No

Support has been added for the 8624XL-80 switch with -48VDC power supply.

PCR: 01152   Module: FIREWALL   Network affecting: No

In a dual policy configuration, the firewall would lock up under load. The firewall would also mistakenly report SYN attacks. These issues have been resolved.

PCR: 01159   Module: PIM   Network affecting: No

The CREATE CONFIG command generated duplicate PIM interface configuration command lines. This issue has been resolved.

PCR: 01162   Module: PKI   Network affecting: No

Certificates containing *GeneralisedTime* with the year in YYYY format are now parsed correctly. The *keyUsage* field of certificates is now parsed correctly when only one byte has been specified. The *CRL update time* is now displayed correctly in hours. If the *username* and *password* parameters are present the *location* parameter must be present and appear before the *username* and *password* parameters.

PCR: 01165   Module: DHCP   Network affecting: No

The DHCP server now correctly allocates addresses to clients running Apple Open Transport 2.5.1 or 2.5.2.

PCR: 01166   Module: FIREWALL   Network affecting: No

Both public and private access could be configured on the same interface on a policy. This issue has been resolved.

PCR: 01167 **Module: ENCO** **Network affecting: No**

RSA encryption is now periodically suspended to ensure other processes get some CPU time during large RSA calculations.

PCR: 01169 **Module: ISAKMP** **Network affecting: No**

The CREATE ISAKMP command now checks that the key specified by the LOCALRSAKEY parameter actually exists in the ENCO module.

PCR: 01171 **Module: ETH, TRIGGER** **Network affecting: No**

The INTERFACE parameter of the CREATE TRIGGER and SET TRIGGER commands now supports Ethernet interfaces. Ethernet interface events can now generate triggers.

PCR: 01173 **Module: Telnet** **Network affecting: No**

The Telnet server's listen port can now be configured to a number in the range 1 to 65535, excluding any ports already assigned as listen ports.

PCR: 01174 **Module: Firewall** **Network affecting: No**

The CREATE CONFIG command sometimes generated scripts for rule commands with GBLIP=0.0.0.0 when this was not necessary. This issue has been resolved.

Features in 86222-03

Patch file details for Patch 86222-03 are listed in Table 4.

Table 4: Patch file details for Patch 86222-03.

Base Software Release File	86s-222.rez
Patch Release Date	8-Aug-2001
Compressed Patch File Name	86222-03.paz
Compressed Patch File Size	205828 bytes

Patch 86222-03 includes all issues resolved and enhancements released in previous patches for Software Release 2.2.2, and the following enhancements:

PCR: 01112 **Module: IPG** **Network affecting: No**

DNS response packets with corrupt length fields were causing a fatal error. This issue has been resolved.

PCR: 01139 **Module: IPG** **Network Affecting: No**

IP NAT caused a fatal error when an ARP wait timer timed out and tried to send a host unreachable message. This issue has been resolved.

PCR: 01147 **Module: STT** **Network affecting: No**

The router was restarting after a "teardrop" attack on the STT listen port. This issue has been resolved.

PCR: 01150   Module: FIREWALL   Network affecting: No

The entry aging process now works correctly even when there are large numbers of firewall entries to be aged.

PCR: 01153   Module: IPG   Network affecting: No

The command SHOW IP DEBUG=*n* was entered, where *n* was one greater than the number of items in the IP debug queue resulted in a fatal error. This issue has been resolved.

Features in 86222-02

Patch file details for Patch 86222-02 are listed in Table 5.

Table 5: Patch file details for Patch 86222-06.

Base Software Release File	86s-222.rez
Patch Release Date	26-Jul-2001
Compressed Patch File Name	86222-02.paz
Compressed Patch File Size	202564 bytes

Patch 86222-02 includes all issues resolved and enhancements released in previous patches for Software Release 2.2.2, and the following enhancements:

PCR: 01081   Module: FIREWALL   Network affecting: No

When an interface on the firewall was configured with a global IP address of 0.0.0.0, outgoing packets from the private interface to the public interface sometimes caused a fatal error. This issue has been resolved.

PCR: 01126   Module: PKI   Network affecting: No

Re-validation of temporary CA certificates now works correctly.

PCR: 01128   Module: IPG   Network affecting: No

A fatal error occurred when IGMP received a *Join* message and attempted to forward the *Join* message to other switch ports. This issue has been resolved.

PCR: 01131   Module: CORE   Network affecting: No

The SHOW CPU command sometimes displayed incorrect CPU utilisation figures. Typically a value of about 74% was reported when in fact the CPU was almost idle. This issue has been resolved.

PCR: 01134   Module: GUI   Network affecting: No

Port parameters can now be set correctly using the Layer 3 Switch GUI.

PCR: 01135   Module: GUI,INST   Network affecting: No

Clicking the *Apply* button on a Layer 3 Switch GUI page caused the switch to lock up if no configuration file was set, but boot.cfg was present. This issue has been resolved.

PCR: 01137   **Module: IPG**   **Network affecting: No**

A fatal error occurred when UDP received a packet with very long UDP packet length. This issue has been resolved.

Features in 86222-01

Patch file details for Patch 86222-01 are listed in Table 6.

Table 6: Patch file details for Patch 86222-01.

Base Software Release File	86s-222.rez
Patch Release Date	11-Jul-2001
Compressed Patch File Name	86222-01.paz
Compressed Patch File Size	187124 bytes

Patch 86222-01 includes the following enhancement for Software Release 2.2.2:

PCR: 01100   **Module: DHCP**   **Network affecting: No**

The DHCP server identified the wrong port numbers for incoming DHCP requests causing DHCP replies to be sent to the wrong port. This issued has been resolved.

PCR: 01102   **Module: IPG**   **Network affecting: No**

The IP flow cache occasionally generated a watchdog fatal error. This issued has been resolved.

PCR: 01102   **Module: SWI**   **Network affecting: No**

Deleting entries from an L3 table occasionally resulted in a watchdog fatal error. This issued has been resolved.

PCR: 01106   **Module: PKI**   **Network affecting: No**

PKI enrolment no longer causes message validation to fail.

PCR: 01119   **Module: IPV6**   **Network affecting: No**

Repeated addition and deletion of an address with the VALID parameter set to or from an IPV6 interface caused a fatal error. This issue has been corrected. The VALID parameter specifies the life of the address, and defaults to INFINITE. The address is deleted when the lifetime expires. The PREF parameter specifies the time that the address is the preferred address of the interface, and defaults to INFINITE. PREF must be less than or equal to VALID. IPV6 now checks and ensures that if either PREF or VALID is specified, PREF is less than or equal to VALID. When an address is deleted the timers are now correctly cleared.

PCR: 01120   **Module: IPG**   **Network affecting: No**

IP sometimes passed the wrong port number to PIM, causing PIM to process the wrong port number in its routing table. This issued has been resolved.

Availability

Patches can be downloaded from the Software Updates area of the Allied Telesyn web site at *www.alliedtelesyn.co.nz/support/updates/patches.html*. A licence or password is not required to use a patch.